

ABSTRACT OF THE DISCLOSURE

A method for production of mixed alcohols by using a sulfided transition metal catalyst selected from Group VI metals; nano-sizing the metal catalyst during its synthesis; suspending the catalyst in solvents to form a slurry; adding, a sulfur containing material to extend catalyst life; and contacting this slurry with carbon monoxide and hydrogen at 200 - 325°C and 500 - 3000 psig pressure.

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